

EXHBITA

DECEMBER 07, 2001

PTAS

BIRCH, STEWART, KOLASCH & BIRCH, LLP GERALD M. MURPHY, JR. P.O. BOX 747 FALLS CHURCH, VA 22040-0747 Under Secretary of Commerce For Intellectual Property and Director of the United States Patent and Trademark Office Washington, DC 20231 www.uspto.gov



1018627354

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 09/26/2001

REEL/FRAME: 012217/0597

NUMBER OF PAGES: 4

BRIEF: RE-RECORD TO CORRECT THE ASSIGNOR'S NAME, PREVIOUSLY RECORDED AT

REEL 011797, FRAME 0164.

`ASSIGNOR:

GREN, TORKEL

DOC DATE: 04/12/2001

`ASSIGNOR:

RINGBERG, ANDERS

DOC DATE: 05/03/2001

\ ASSIGNOR:

WIKBERG, MARTIN

DOC DATE: 04/27/2001

`ASSIGNOR:

WALD, RANDY J.

DOC DATE: 04/14/2001

ASSIGNEE:

PHARMACIA AB

SE-112 87 STOCKHOLM, SWEDEN

DAT

SERIAL NUMBER: 09763281

PATENT NUMBER:

FILING DATE: 05/10/2001

ISSUE DATE:

012217/0597 PAGE 2

TONYA LEE, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

BIRCH, STEWART, KOLASCH & BIRCH, LLP

UNITED STATES PATENT RIGHTS, OR UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS

ASSIGNMENT

		Application No. 09/763,281		-		
Insert Nam	1e(s)			Filed February 21, 2001		
of Inventor	(s)	WHEREAS,	Torkel GREN			
		Martin WIKBERG		Anders RINGBERG		
			Randy J. WALD			

	/	lerainn Ang Jari				
•	Ų	refemanter designated as the i	undersigned) has (have) inven	ted certain new and useful improvements in		
Insert Title of Invention						
The same control of	U	NIT FORMULATION COM	ASE BEAD, A METHOD	OF PRODUCING THE SAME AND MULTIPLE		
	fo:	which an application for I	Letters Patent of the United	States of America has been executed by the		
_	GH	dersigned (except in the case	configure to the United of a provisional application).	States of America has been executed by the		
Insert Date of Signing of						
Application	on	April 17 2001. 14. 2 mas				
			; April 27, 2001; and April 14	, 2001, respectively		
Insert Name of Assignee				; and		
		WHEREAS, PHARN	ACIA AB			
Insert Address						
of Assignee	of S	E-112 87 Stockholm SWEDI	EN			
_	its h	eirs, successors, legal repress				
	acqu	iring the entire right, title an	matives and assigns (hereinaf	fter designated as the Assignee) is desirous of and in and to any Letters Patent(s) that		
CHECK BOX	;,	be granted therefor in the Un any foreign countries.	nited States of America and	ntion and in and to any Letters Patent(s) that		
IF APPROPRIATE		y says and the says and says a				
	NOW	/ THEREFORE in				
	the re	eceipt of which is hereby ack	ation of the sum of Ten Dolla	rs (\$10.00) to the undersigned in hand paid,		
	depen	dencies and possessions	ght to the said invention in the	he United States of Annual Property of Annual Prope		
		signee the full and exclusive right to the said invention in the United States of America, its territories, ich may be granted therefor in the United States of America, its territories, ich may be granted therefor in the United States of America, its territories, is sessions, and if the box above is designated, in any and all foreign countries;				
	posses	isions, and if the box above is	s designated, in any and all for	merica, its territories, dependencies and		
	and to	any and all divisions, reissue	es continuation-	G. Tanissing,		
	terms i	for which the same may be gr	ranted.	and extensions thereof for the full term or		
Page 1 of 2						

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree (s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letter Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States of America patent(s) or a grant of a valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from said application or any continuing, divisional conversion or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of Birch, Stewart, Kolasch & Birch, LLP the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

	4/12/01	Name of Invent	or Orlay Smill (signature) Torkel GREN
_	5/03/07	Name of Invento	
Date	4/27/01	Name of Invento	1 / 1
Date	4/14/01	Name of Inventor	Rank J Wald (signature) Rank J. WALD
Date	,	Name of Inventor	(signature)
Date		Name of Inventor	(signature)



10-03-2001





Atty. Docket No.: 1614-0246P Page 1 of 1

101862735 RECOMMATION FURINI CUVER SHEET					
To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.					
Name of conveying party(ies):	2. Name and address of receiving party(ies)				
GREM-Torkel GREM-Torkel RINGBERG, Anders	PHARMACIA AB				
RINGBERG, Anders WIKBERG, Martin	SE-112 87 Stockholm				
WALD, Randy J.	Sweden				
Additional name(s) of conveying party(ies) attached? TYES NO					
3. Nature of conveyance:					
Security Agreement Change of Name					
Other:	Additional name(s) & address(es) attached? YES NO				
Execution Date: April 12, 2001; May 3, 2001; April 27, 2001; and April 14, 2001, respectively					
4. Application number(s) or patent number(s):					
If this document is being filed together with a new application, the	ne execution date of the application is:				
A. Patent Application No(s).	B. Patent No.(s).				
09/763,281					
Additional numbers attac	hed? TYES NO				
5. Name and address of party to whom correspondence	6. Total No. of applications/patents involved: One (1)				
concerning document should be mailed:	7. Total fee (37 C.F.R. § 3.41): \$40.00				
Name: BIRCH, STEWART, KOLASCH & BIRCH, LLP	⊠ Enclosed				
Street Address: P.O. BOX 747	Authorized to be charged to deposit account.				
City: FALLS CHURCH State: VA ZIP: 22040-0747	if no fee attached.				
Country: USA	8. Deposit account number: 02-2448				
	(Attach triplicate copy of this page if paying by deposit account)				
DO NOT USE THIS SPACE					
9. Statement and signature.					
To the best of my knowledge and belief, the foregoing it copy of the original document.	nformation is true and correct and any attached copy is a true				
Gerald M. Murphy, Jr., #28,977 Name of Person Signing/Reg. No.	Signature 28,781 September 26, 2001 Date				
Total number of pages including cover she	eet, attachments, and document: Three (3)				

MAY 1 0 2001

Atty. Docket No.: 1614-0246P

Page 1 of 1 05~17-2001 RECO T To the Hono 5-10-01 narks: Please record hereof. 101719726 1. Name of conveying party(ies): receiving party(ies) Torkel GREN, Anders RINGBERG, Marten WIKBERG PHARMACIA AB and Randy J. WALD SE-112 87 Stockholm Additional name(s) of conveying party(ies) attached? Sweden ☐ YES ⊠ NO 3. Nature of conveyance: ■ Assignment Merger Security Agreement ☐ Change of Name Other: Execution Date: April 12, 2001; May 3, 2001; April 27, Additional name(s) & address(es) attached? \(\subseteq \text{YES} \times \text{NO} \) 2001; and April 14, 2001, respectively 4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: A. Patent Application No(s). B. Patent No.(s). 09/763,281 Additional numbers attached?

YES

NO 5. Name and address of party to whom correspondence 6. Total No. of applications/patents involved: One (1) concerning document should be mailed: 7. Total fee (37 C.F.R. § 3.41): \$40.00 Name: BIRCH, STEWART, KOLASCH & BIRCH, LLP □ Enclosed Street Address: P.O. BOX 747 Authorized to be charged to deposit account, City: FALLS CHURCH State: VA ZIP: 22040-0747 if no fee attached. 8. Deposit account number: 02-2448 Country: USA (Attach triplicate copy of this page if paying by deposit account) DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Gerald M. Murphy, Jr., #28,977 May 10, 2001 Name of Person Signing/Reg. No. Date

Total number of pages including cover sheet, attachments, and document: Three (3)

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(Rev. 01/11/01)

Attention: BOX ASSIGNMENTS

1614-0246P

SOP 2 8 2001 25

IN THE U.S. PATENT AND TRADEMARK OFFICE

Torkel GREN et al.

Conf.:

5301

Appl. No.:

09/763,281

Group:

1615

Filed:

May 10, 2001

Examiner: A. PULLIAM

For:

NEW CONTROLLED RELEASE BEAD, A METHOD OF PRODUCING THE SAME AND MULTIPLE UNIT

FORMULATION COMPRISING IT

LETTER

BOX ASSIGNMENTS

September 26, 2001

Assistant Commissioner for Patents and Trademarks Washington, DC 20231

Sir:

Corrections are being made to the originally filed Recording of Assignment cover sheet, pursuant to 37 C.F.R. §3.34, with respect to the above-identified application.

A review of the Assignment and the Notice of Recordation reflects that a typographical error occurred in the typing of third inventor's first name. The Recording of Assignment Cover Sheet is now corrected to properly reflect the correct spelling of the third inventor's first name, namely

--MARTIN--

Appl. No. 09/763,281

A new Recording of Assignment cover sheet is attached as well, for which a check in the amount of \$40.00 is attached.

With the corrections being underlined, please insure that the Corrected Notice of Recordation reads:

[WIKBERG, MARTEN]: WIKBERG, MARTIN

Please provide a Corrected Notice of Recordation incorporating the above correction.

If necessary, the Commissioner is hereby authorized in this. concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. § 1.16 or under 37 C.F.R. § 1.17; particularly, extension of time fees.

Respectfully submitted,

BIRCH, STEWART, KOLASCH & BIRCH, LLP

fa Gerald M. Murphy, Gr., #28,977

P.O. Box 747

Falls Church, VA 22040-0747

(703) 205-8000

ATTACHMENTS:

GMM/RG/tm

1614-0246P

New Recordation Cover Sheet Copy of Notice of Recordation

Copy of previous Recordation Cover Sheet

Copy of Assignment

Check in the amount of \$40.00

ร์ (การเมื่อได้เหลือได้) เปิดเหลือด และเพียงดี และเพื่อง (โดย) ด้วย เดิดและสิ่งกว่า สีแกะสิ่งกัดเกิดเลยดังเดิด



UNITED SPITES DEPARTMENT OF COMMERCE Patent and rademark Office

ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Weshington, D.C. 20231

JULY 31, 2001

PTAS

BIRCH, STEWART, KOLASCH & BIRCH, LLP GERALD M. MURPHY, JR. P.O. BOX 747 FALLS CHURCH, VA 22040-0747



101719726A

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RECORDATION DATE: 05/10/2001

REEL/FRAME: 011797/0164

NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

GREN, TORKEL

DOC DATE: 04/12/2001

ASSIGNOR:

RINGBERG, ANDERS

DOC DATE: 05/03/2001

ASSIGNOR: MARTIN

WIKBERG, MARTEN

DOC DATE: 04/27/2001

· ASSIGNOR:

WALD, RANDY J.

DOC DATE: 04/14/2001

`ASSIGNEE:

PHARMACIA AB

SE-112 87 STOCKHOLM, SWEDEN

PAT

化氧化氯 化二甲烷 化氯化磺胺氯化烷基 化环氯 的复数英格兰人姓氏克克 的复数形式 计记录 医电影 医克拉克氏 医多种毒物

SERIAL NUMBER: 09763281

PATENT NUMBER:

FILING DATE: 05/10/2001

ISSUE DATE:

011797/0164 PAGE 2

PAULA MCCRAY, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

Attention: BOX ASSIGNMENTS

1614-0246P

IN THE U.S. PATENT AND TRADEMARK OFFICE

Applicant:

Torkel GREN et al. Conf.:

5301

Appl. No.:

09/763,281

Group:

1615

Filed:

May 10, 2001

Examiner: A. PULLIAM

For:

NEW CONTROLLED RELEASE BEAD, A METHOD OF PRODUCING THE SAME AND MULTIPLE UNIT

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Respectfully submitted,

BIRCH, STEWART, KOLASCH & BIRCH, LLP

Gerald M. Murphy, Or., #28,977

P.O. Box 747

Falls Church, VA 22040-0747

(703) 205-8000

GMM/RG/tm 1614-0246P

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New Recordation Cover Sheet

Copy of Notice of Recordation

Copy of previous Recordation Cover Sheet

Copy of Assignment

Check in the amount of \$40.00

Atty. Docket No.: 1614-0246P Page 1 of 1

RECORDATION F	ORM COVER SHEET				
	ner of Patents and Trademarks: ginal documents or copy thereof.				
1. Name of conveying party(ies): GREN, Torkel RINGBERG, Anders WIKBERG, Martin WALD, Randy J. Additional name(s) of conveying party(ies) attached? YES NO 3. Nature of conveyance: Assignment Merger Security Agreement Change of Name Other: Execution Date: April 12, 2001; May 3, 2001; April 27, 2001; and April 14, 2001, respectively	2. Name and address of receiving party(ies) PHARMACIA AB SE-112 87 Stockholm Sweden Additional name(s) & address(es) attached? YES NO				
4. Application number(s) or patent number(s): If this document is being filed together with a new application, the second seco	ne execution date of the application is:				
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Name: BIRCH, STEWART, KOLASCH & BIRCH, LLP	Enclosed				
Street Address: P.O. BOX 747 City: FALLS CHURCH State: VA ZIP: 22040-0747	Authorized to be charged to deposit account, if no fee attached.				
Country: USA	8. Deposit account number: 02-2448 (Attach triplicate copy of this page				
	if paying by deposit account)				
DO NOT USE	THIS SPACE				
Statement and signature.					
To the best of my knowledge and belief, the foregoing in copy of the original document.	nformation is true and correct and any attached copy is a true				
Gerald M. Murphy, Jr., #28,977 Name of Person Signing/Reg. No. Ly Rich Hollow 28,781 Signature Signature September 26, 200 Date					
Total number of pages including cover she	et, attachments, and document: Three (3)				

DOCUMENT (S)" OF

The undersigned hereby certifies that the correspondence indicated on the attached photocopy of the postcard receipt was reviewed and found to be in proper order for filing in the

	ewed and found to be in proper order for fifting in the P.T.O. by
	Certificate of Mailing Procedures (This correspondence is being deposited with the United States Postal Service as first class mail, postage prepaid, in an envelope addressed to: Assistant Commissioner for Patents, Washington, DC 20231; on the below indicated date.)
\boxtimes	Hand Carry to the U.S.P.T.O. mailroom by $\underline{\text{MRS. CHIN/MISS LEE}}$ on the below indicated date.
	Telefaxed to the U.S.P.T.O. on the below indicated date in accordance with the procedures for faxing documents to the U.S.P.T.O. Upon successful transmission to the U.S.P.T.O., a copy of the facsimile Transaction Report will be attached herewith.
APPL	ed: <u>Edel Band</u> F <u>Malaney</u> Date: 4-26-01 . NO.: RNEY DOCKET NO.:
RESP(ONSIBLE ATTY-/SECY.: GHMAY EM DATE: DOCKET NO. 1614 - 0246 P
Papers Filed Incremitton: $\frac{V - \lambda_2 i - OI}{OCKET NO. \frac{2iN''Y - O'J''Y'' O'}{N''Y'' O'}}$ ATTY: $\frac{GHH'}{GHH'}$ $\frac{AG}{AG}$ APPLICANT(S): $\frac{O'J'' Y' - O'J'' Y'' O'}{O'J'' O'J'' O'J'''' O'J'' O'J$	PAT NO: Chew Application with Transmittal Letter Utility T. Chew Application with Transmittal Letter Utility T. Chew Application with Transmittal Letter Thing Under 37 CFR 1.14(RCE) T. Convinced Declaration 2 CFR 1.14(RCE) T. Convinced Declaration 3 CFR 1.14(RCE) T. Convinced Declaration 3 Power of Altomay T. Chew Cover Letter T. Convinced Declaration 4 Power Letter T. Convinced Declaration 5 Power of Altomay T. Convinced Declaration 6 Power letter T. Convinced Declaration 6 Power Letter, Nu. Doc. Transmit Lit T. Large Entity T. Small Entity T. Convinced Appear T. Convin

Forty & 00/100 Dollars

PAY

ORDER ORDER

Papers Filed herewith on: 4-26-01 DOCKET NO: 1614-0246 PATTY: 6HH / RG APPLICANT(S): Tookel 6REN et al. APPLN. NO: 09/763, 281 FILED: Hay 10, 2001 PAT NO:
O New Application with Transmittal Letter ☐ Utility ☐ Design ☐ CIP ☐ PCT ☐ Provisional ☐ Filing Under 37 CFR 1.53(b) ☐ CONT ☐ DIV ☐ Filing Under 37 CFR 1.53(d) (CPA) ☐ Filing Under 37 CFR 1.314(RCE)
☐ Specification Consisting of:
□ Letter to Official Draftsman □ Drawings Sheets □ Formal □ Informal □ Red-Ink □ Completion of Filing Requirements. PCT/DO/EC/905
or Formalities Letter and Executed Declaration Priority Document(s) / Cover Letter, No. Doc.
☐ Transmil Ltr ☐ Large Entity ☐ Small Entity ☐ Response
☐ Information Discl Stmnl, PTO-1449(s)ref(s) ☐ Notice of Appeal ☐ Appeal Brief ☐ Issue Fee Transmittal
TEES. A HO. 00 /Check of 4020061) Deter Bequesting Cospection of Resignal. Rec
Other New Hecowathen Cover Lifeet - Copy of Previous Hec Cover Sheet - Copy of Assignment
Receipt is Hereby acknowledged of the papers filed as indicated in connection with the above identified case. COMMISSIONER OF PATENTS AND TRADEMARKS Due Date:
1 familiary

#E86495202 #1440100950# #19002010#

FOR RECORDING FEE 513446 1614-0246P BIRCH, STEWART, KOLASCH AND BIRCH, LLP

CPO ACCOUNT
8110 GATEHOUSE ROAD, SUITE 500 EAST
P.O. BOX 747 COMMISSIONER OF PATENTS AND TRADEMARKS FALLS CHURCH, VA 22040-0747 I.D. NO. EM RECORDING ERROR 09/26/01 68-107 560 DATE \$40.00 AMOUNT DOLLARS (

SUNTRUST BANK Alexandria, Virginia



UNITED STATES DEPARTMENT OF COMMERCE Patent and ademark Office

ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

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MIER TO CO

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'ASSIGNEE:

PHARMACIA AB

SE-112 87 STOCKHOLM, SWEDEN

13.5

'SERIAL NUMBER: 09763281

PATENT NUMBER:

FILING DATE: 05/10/2001

ISSUE DATE:

011797/0164 PAGE 2

PAULA MCCRAY, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

4、大型的 医动脉反射 2017年,只是自由某机场的影响,这个重要的影响,也可能够不够有多少。